

3GPP R6 HSPA and R7 HSPA+ SAR Guidance

When SAR evaluation is required for 3GPP R6 HSPA, the procedures in KDB 941225 should be followed to configure the device in the required sub-test mode(s) for SAR measurements. SAR considerations for 3GPP R7 HSPA+ using 16 QAM in the uplink must be determined through KDB inquiries until sufficient information can be gathered on HSPA+ devices to provide further test guidance. Unless it has been confirmed through a KDB inquiry that SAR evaluation is not necessary, PBA is required for a TCB to approve HSPA+ devices using 16 QAM in the uplink. The KDB or PBA tracking number must be included in the SAR report to clearly identify the SAR test requirements. Testing issues for HSPA or HSPA+ should be addressed through KDB inquiries before starting any SAR compliance measurements

- 1) Regardless of whether a PBA is required, the following information should be verified and included in the SAR report for HSPA and HSPA+ devices:
 - a) Output power measurement results according to the FCC 3G SAR measurement procedures (KDB 941225) and specific guidance provided through KDB inquiries; including but not limited to the sub-test configurations and Maximum Power Reduction (MPR) requirements, to determine if SAR evaluation is required for HSPA and HSPA+.
 - i) Power measurement issues must be resolved between the grantee and its test lab or TCB prior to submitting any test data through a KDB or PBA.
 - b) The power measurement results are in agreement with the individual device implementation and specifications. For example, a power reduction on the order of 0, 2, 1, 2, 0 dB are expected for the HSPA sub-test configurations 1 – 5, respectively, when implemented according to the MPR values listed in 3GPP TS 34.121; otherwise, explanations of the MPR implementation for the specific device must be included to substantiate the test results for supporting any SAR test exclusion considerations.
 - c) Operating parameters, such as the different β and Δ values configured for testing the device, and the power setback procedures described in 3GPP TS 34.121 have been properly applied in the power measurements. It must be clearly documented that the HSPA and HSPA+ channels have remained active and stable with the required E-TFCI and AG index values for the duration of the measurements.
- 2) When SAR measurement is required, the test configurations, procedures and results must be reviewed by the TCB to confirm the required test parameters, including stable TFCI and output power conditions, have been used for the SAR measurements. Other issues identified in related KDB inquiries for the device must also be reviewed and addressed by the TCB before issuing equipment certification.

Change Notice:

941225 D02 Guidance for 3GPP R6 HSPA PBA v01 of publication 941225 is replaced by 941225 D02 Guidance PBA for 3GPP R6-HSPA v02 due to removal of HSPA from the PBA list and addition of HSPA+ with 16 QAM in the uplink to the PBA list.

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The document identification 941225 D02 Guidance PBA for 3GPP R6-HSPA v02 has been changed to 941225 D02 Guidance for 3GPP R6 and R7 HSPA v02v01.